#### PATENT COOPERATION TREATY

To:

#### From the INTERNATIONAL BUREAU

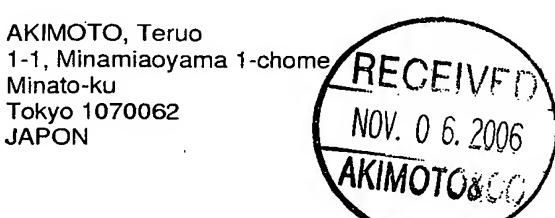
### **PCT**

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

Tokyo 1070062 **JAPON** 

AKIMOTO, Teruo



Date of mailing (day/month/year) 26 October 2006 (26.10.2006) Applicant's or agent's file reference **IMPORTANT NOTIFICATION** N-5002-PCT International application No. International filing date (day/month/year) PCT/JP2005/006410 25 March 2005 (25.03.2005) **Applicant** NIPPON OIL CORPORATION et al

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1.	<b>Transmittal</b>	of the	translation	to	the ap	pplicant.

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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

#### Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yc

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### PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

See item 4 below

FOR FURTHER ACTION

Applicant's or agent's file reference N-5002-PCT

International application No. PCT/JP2005/006410	International filing date (d 25 March 2005 (25.03.2	ay/month/year) 005)	Priority date (day/month/year) 25 March 2004 (25.03.2004)	
International Patent Classification ( See relevant information in Form		n indicated)		
Applicant NIPPON OIL CORPORATION				
-				
-				
This international prelimina     International Searching Aut	ry report on patentability (Cha hority under Rule 44 bis.1(a).	pter I) is issued by th	e International Bureau on behalf of the	
2. This REPORT consists of a	total of 7 sheets, including this	s cover sheet		
			Searching Authority should be read as a reference	
to the international prelimin	ary report on patentability (Ch	apter I) instead.		
3. This report contains indicati	ons relating to the following it	ems:		
Box No. I	Basis of the report			
Box No. II	Priority		•	
Box No. III	Non-establishment of capplicability	pinion with regard to	novelty, inventive step and industrial	
Box No. IV	Lack of unity of invent	ion		
Box No. V	Reasoned statement una applicability; citations a	der Article 35(2) with and explanations supp	regard to novelty, inventive step or industrial porting such statement	
Box No. VI	Certain documents cite	d		
Box No. VII	Certain defects in the ir	nternational application	on	
Box No. VIII	Certain observations on	the international app	blication	
4. The International Bureau will not, except where the applicadate (Rule 44bis .2).	l communicate this report to dant makes an express request u	esignated Offices in a nder Article 23(2), be	accordance with Rules 44bis.3(c) and 93bis.1 but efore the expiration of 30 months from the priority	
		D		
		Date of issuance 19 October 200	<b>+</b>	
The International B 34, chemin des 1211 Geneva 20	Colombettes	Authorized officer  Yoshiko Kuwahara		
Facsimile No. +41 22 338 82 70		e-mail: pt07@wi	po.int	
Form PCT/IB/373 (January 2004)				

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			ITY .	TVS.		
To:					PCT PTON	
					RITTEN OPINION OF THE TIONAL SEARCHING AUTHORITY	
					(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)		
Applicant's or agent's file reference  N-5002-PCT  FOR FURTHER ACTION  See paragraph 2 below						
			1	<u> </u>		
	al application No. JP2005/0064	410	International filing date (25.03.2005	(day/month/year)	Priority date (day/month/year) 25.03.2004	
Internationa	al Patent Classification	(IPC) or both	n national classification an	ıd IPC		
Applicant						
NIPPO	ON OIL CORE	PORATIO	NC	·		
1. T	bis opinion contains in	edications relat	ting to the following items	c·		
	<b>7</b>			<b>3.</b>		
K	Box No. I	Basis of the	opinion			
	Box No. II	Priority	4.9			
	Box No. III			gard to novelty, inven	tive step and industrial applicability	
\   	Box No. IV		ty of invention	ac NON milely appeared to	The same of the sa	
K	Box No. V		atement under Rule 43bis. y; citations and explanation		novelty, inventive step or industrial atement	
L	Box No. VI	Certain docu	ments cited	•		
Ļ	Box No. VII	Certain defe	ects in the international app	plication		
L	Box No. VIII	Certain obse	ervations on the internation	nal application		
2. <b>F</b>	URTHER ACTION					
In th	nternational Preliminary nan this one to be the I	y Examining A IPEA and the	Authority ("IPEA") excep	ot that this does not ap I the International Bur	ill be considered to be a written opinion of the oply where the applicant chooses an Authority other reau under Rule 66.1 bis(b) that written opinions of	
w. Po	ritten reply together, CT/ISA/220 or before to	where approp the expiration	oriate, with amendments, of 22 months from the pri	before the expiration	A, the applicant is invited to submit to the IPEA and of 3 months from the date of mailing of Form expires later.	
10	or further options, see I	Form PC1/18A	<b>4</b> /220.			
3. Fo	or further details, see n	otes to Form I	PCT/ISA/220.			
Name and r	mailing address of the I	ISA/JP		Authorized officer		
	•					
Facsimile N	Ja			Telephone No.	·	

Box	No. I	Basis of this opinion
1.	With filed,	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.	With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
	-	in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
2		
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addit	ional comments:
		•
	·	

Во	x No. IV Lack of unity of invention
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
	paid additional fees
	paid additional fees under protest
	not paid additional fees
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
	complied with
	not complied with for the following reasons:
	Claims 1-9 contain the following groups (A) to (D) of inventions:  (A) a lubricative composition for industrial machinery and equipment which comprises a base oil selected from among mineral oils, fats and oils, synthetic oils, and mixtures of two or more of them, and an additive consisting of a phosphorus-containing carboxylic acid and/or a thisphosphoric ester,  (B) a lubricative composition for industrial machinery and equipment which comprises a base oil selected from among mineral oils, fats an oils, synthetic oils, and mixtures of two or more of them, and an additive consisting of a dispersant viscosity index improver,  (C) a lubricative composition for industrial machinery and equipment which comprises a base oil selected from among mineral oils, fats and oils, synthetic oils, and mixtures of two or more of them, and an additive consisting of a compound represented by any of the general formulae (1) to (4) in claim 1, and  (D) a lubricative composition for industrial machinery and equipment which comprises a base oil selected from among mineral oils, fats and oils, synthetic oils, and mixtures of two or more of them, and an additive consisting of an ester oiliness improver.
	A lubricative composition for industrial machinery and equipment which comprises a base oil selected from among mineral oils, fats and oils, synthetic oils, and mixtures of two or more of them, and an additive, which is the feature common to groups (A) to (D) of the inventions, is publicly known as disclosed in documents listed in Box V.2, and do not exceed the scope of prior art; therefore it is not corresponding to a special technical feature prescribed in PCT Rule 13.2.  Consequently, there is no technical relationship among the four groups of inventions involving one or more for the same or corresponding special technical features, and this international application includes four groups of inventions which are not so linked as to form a single general inventive concept.
4.	Consequently, this opinion has been established in respect of the following parts of the international application:
	all parts
	the parts relating to claims Nos.

Вох	No. V Reasoned stateme citations and expl				entive step or industrial applicability;	
I.	Statement		pp or mag occur.			··· <del>·</del>
	Novelty (N)	Claim	3			YES
		Claims	1-2,	4-9		NO
	Inventive step (IS)	Claims				YES
		Claims	1-9			NO
	Industrial applicability (IA)	Claims	1-9			VEC
		Claims				YES NO
		·				
2.	Citations and explanations:					
	Document 1: JP 2000-			Shell Sekiyu Kabush	iki Kaisha),.	
	29 Febru	-		Cl11 C -1-1 77 .1	1 '1 ' T7 ' 1 \	
	Document 2: JP 2002-			a Snell Sekiyu Kabus	hiki Kaisha),	
	Document 3: IP 2002			o Chall Calries Valena	Jailai TZ ainlan	
	Document 3: JP 2002- 09 Octob			a Shell Sekiyu Kabus	niki Kaisna),	
	Document 4: JP 2002-			a Chall Calcium Vahua	hilri Vaicha)	
	27 Nove			a Sheh Sekiyu Kabus	niki Kaisna),	
	Document 5: JP 59-24		<b>~</b>	eigy AG)		
	08 February	•		agy AO),		
	Document 6: JP 10-67	•		eiov AG)		
	10 March			0167 1107,		
	Document 7: JP 11-21	7577 A	(CIBA-G	eigy AG).		
	10 Augus					
	Document 8: JP 10-338		(R.T. Van	darbilt Co., Inc.),		
	22 Decen	nber 199	98	•		
	Document 9: JP 2000-	336384	A (NOK	Kuryuba Kabushiki H	(aisha)	
	05 Decen	nber 200	00	-	<b>,</b>	
	Document 10: JP 51-7	4005 A	(Mitsubis	shi Oil Co., Ltd.)		
	26 June 1	976		·	•	
	Document 11: JP 2001	-279286	6 A (Nipp	on Mitsubishi Oil Co	orp.)	
	10 October	er 2001			<del>-</del>	

Supplemental Box				
In case the space in any of the prece	eding boxes is not sufficient.			
Continuation of IPC	of the cover page			
C10N 10:02, 10:04, 3	30:00, 30:04, 30:06,	30:08, 30:10, 30:12	2, 40:02, 40:04, 40:08	
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International application No. PCT/JP2005/006410

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V.2

Document 12: JP 8-134488 A (Shell Internationale Research Maatschappij B.V.), 28 May 1996

Document 13: JP 9-111277 A (Idemitsu Kosan Co., Ltd.),

28 April 1997

Document 14: JP 2002-97485 A (Nippon Mitsubishi Oil Corp.), 02 April 2002

Above documents 1-14 are cited in the ISR.

A. The inventions described in claims 1-2, 4-9 do not appear to possess novelty or involve an inventive step based on documents 1-3.

Documents 1-13 describes a lubricative composition for industrial machinery and equipment which comprises mineral oils, fats and oils, synthetic oils, or mixtures of two or more of them as a base oil and an additive specified in the present application.

Also, the above document describes using the above composition for gear oil, lubricating oil for slide guides, and hydraulic oil.

B. The invention described in claim 3 does not appear to involve an inventive step based on documents 1-14.

No particular difficulty is found in using the lubricative composition described in documents 1-13 for lubricating paper machines.